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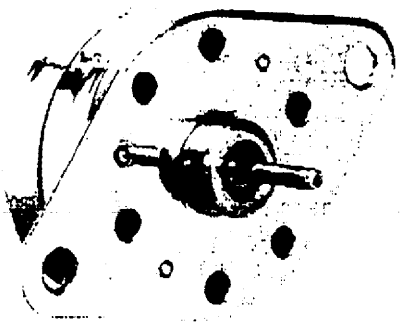
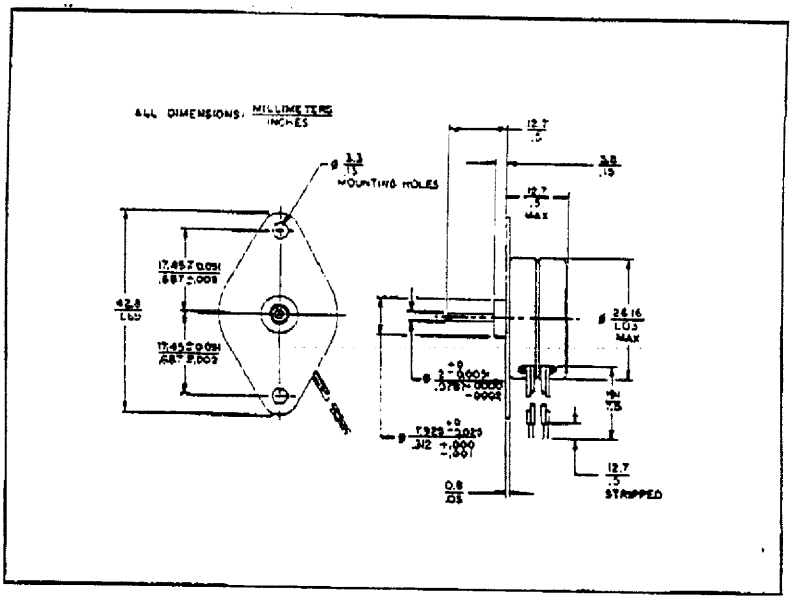
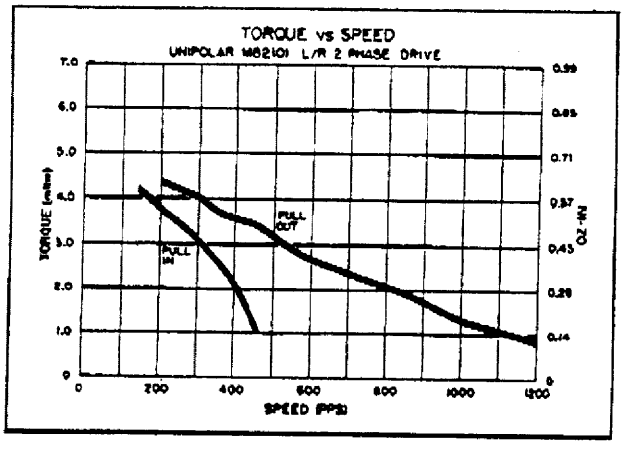
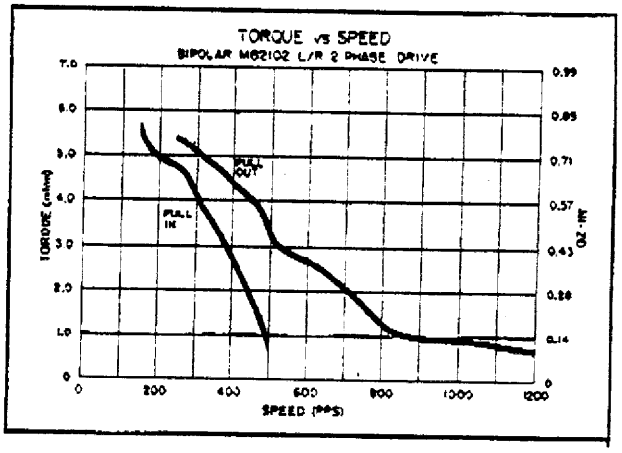
Series M82100 Stepper Motors



Dimensions







Specifications

NOTE: Refer to page 7 for switching sequence.

Ordering Part No. (Add Suffix)	M82101 Unipolar		M82102 Bipolar	
Suffix Designation	–P1	–P2	–P1	–P2
DC Operating Voltage	5	12	5	12
Res. per Winding Ω	19.6	110	19.8	108
Ind. per Winding mH	5.3	36.5	13.0	60.7
Holding Torque mNm/oz-in*	9.2/1.3		10.6/1.5	
Rotor Moment of Inertia g * m²	1.1 x 10⁻⁴			
Detent Torque mNm/oz-in	0.85/0.12			
Step Angle	7.5°			
Step Angle Tolerance*	±.5°			
Steps per Rev.	48			
Max Operating Temp	100°C			
Ambient Temp Range Operating Storage	 – 20°C to 70°C – 40°C to 85°C			
Bearing Type	Bronze sleeve			
Insulation Res. at 500Vdc	100 megohms			
Dielectric Withstanding Voltage	650 ± 50 VRMS 60 Hz for 1 to 2 seconds			
Weight g/oz	28 g/1 oz			
Lead Wires	28 AWG			

*Measured with 2 phases energized.